(19) European Patent Office

(11) EP 0 995 718 A1

(12) EUROPEAN PATENT APPLICATION

(43) Date published:
04.26.2000, Official Gazette 2000/17

(51) Intern. Class:[7] **CO1B 33/18,** C01B 13/20
B01J 19/24, B01J 19/26
B01J 12/02, D21H 17/69

(21) Applicatlion Number: 99118228.8

(22) Application Filing Date: 09.14.1999

(84) Known Contracting Countries:
AT BE CH CY DE DK ES Fl FR
GB GR IE IT LI LU MC NL
PT SE
Known Extension Countries:
AL LT LV MK RO SI

(30) Priority Date: 10.14.1998
DE 1984 7161

(71) Applicant:

Degussa-Hüls Aktiengesellschaft
60287 Frankfurt am Main (DE)

(72) Inventors:
Dr. Helmut Mangold
63517 Rodenbach (DE)
Mitsuro Ochiai
Hasuda City, Saitama 349-01 (JP)
Dr. Holger Glaum
63477 Maintal-Wachenbuchen (DE)
Astrid Müller
63776 Mömbris (DE)

Aerosol-Doped, Pyrogenically Manufactured Silicon Dioxide

(57) Aerosol-doped, pyrogenically manufactured silicon dioxide is produced by incorporating a watery aerosol of an aluminum salt in the reaction during the flame hydrolysis process.

The silicon dioxide, which is doped with Al_2O_3 by means of aerosol, can be used among other things for the manufacture of inkjet paper.

Key for Figure 1:

1	aerosol generator
2	heater
3	axial-flow tube with aerosol
4	burner chamber
5	jet
6	flame tube
7	cooling water
8	burner
9	secondary air
10	central tube with air + H_2 + $SiCl^4$
11	annular die with secondary H_2
12	salt solution
13	carrier gas